Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-07-02** **Date: 09-02-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and other development works to Dr. B. R. Ambedkar Bhavan in Ward no.04 at Yelahanka.
Agency	:	Sri. H.V. Onkarappa, Bangalore.
Customer's Reference	:	EE(Projecct)/YNK Zone/AG/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-02-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg, Min)	255.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 90 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-07-02** **Date: 14-02-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and other development works to Dr. B. R. Ambedkar Bhavan in Ward no.04 at Yelahanka.
Agency	:	Sri. H.V. Onkarappa, Bangalore.
Customer's Reference	:	EE(Projecct)/YNK Zone/AG/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	07-02-18

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-07-02** **Date: 10-02-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and other development works to Dr. B. R. Ambedkar Bhavan in Ward no.04 at Yelahanka.
Agency	:	Sri. H.V. Onkarappa, Bangalore.
Customer's Reference	:	EE(Projecct)/YNK Zone/AG/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	252	252	1.7	98.3	90-100
3	20 mm	5281	5533	36.9	63.1	30-70
4	10 mm	4674	10207	68.0	32.0	10-35
5	4.75 mm	4369	14576	97.2	2.8	0-5
6	Pan	424	15000	100.0	0	---

CIVIL PRO Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

M : 9972924526 | Tel : +91 80 23444801 | civilproexperts@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-07-02** **Date: 10-02-18**

Sample ID No : 2018-02-07-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.23	_

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-07-02** **Date: 10-02-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and other development works to Dr. B. R. Ambedkar Bhavan in Ward no.04 at Yelahanka.
Agency	:	Sri. H.V. Onkarappa, Bangalore.
Customer Reference	:	EE(Projecct)/YNK Zone/AG/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	283	283	5.7	94.3	90-100
3	10 mm	2182	2465	49.3	50.7	25-55
4	4.75 mm	2049	4514	90.3	9.7	0-10
5	Pan	486	5000	100	0	–

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-07-02** **Date: 10-02-18**

Sample ID No : 2018-02-07-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	25.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-07-02** **Date: 10-02-18**

Customer : Assistant Executive Engineer, Project division, BBMP, Bangalore.

Address : Project division, BBMP, Bangalore.

Project Name : Construction of compound wall and other development works to Dr. B. R. Ambedkar Bhavan in Ward no.04 at Yelahanka.

Agency : Sri. H.V. Onkarappa, Bangalore.

Customer's Reference : EE(Projecct)/YNK Zone/AG/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-02-18

Sample ID No : 2018-02-07-02/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 07-02-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	88	88	8.8	91.2	90-100	90-100	90-100	95-100
3	2.36 mm	156	244	24.4	75.6	60-95	75-100	85-100	95-100
4	1.18 mm	175	419	41.9	58.1	30-70	55-90	75-100	90-100
5	600 micron	188	607	60.7	39.3	15-34	35-59	60-79	80-100
6	300 micron	165	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	145	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

CIVIL PRO Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division.
Yelahanka Zone
Bangalore

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-07-02** **Date: 10-02-18**

Sample ID No : 2018-02-07-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.3	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division.
Yelahanka Zone
Bangalore

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2018-02-15-02 **Date: 19-02-18**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Construction of Compound wall and other development works to Dr.B.R. Ambedkar Bhavan in Ward No.04 at Yelahanka.
Agency	:	Sri.H.V.Omkarappa, Bangalore.
Customer Reference	:	EE(Project)/YNKZone/AG/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-18
Sample ID No	:	2018-02-15-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16-02-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	201	201	2.0	98.0	95-100
22.4	2415	2616	26.2	73.8	60-80
11.2	2372	4988	49.9	50.1	40-60
4.75	2098	7086	70.9	29.1	25-40
2.36	1211	8297	83.0	17.0	15-30
0.6	498	8795	88.0	12.1	8-22
0.075	1041	9836	98.4	1.6	0-5

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-02-15-02** Date: 19-02-18
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Construction of Compound wall and other development works to Dr.B.R. Ambedkar Bhavan in Ward No.04 at Yelahanka.
Agency	:	Sri.H.V.Omkarappa, Bangalore.
Customer Reference	:	EE(Project)/YNKZone/AG/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-18
Sample ID No	:	2018-02-15-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-02-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	314.0	314.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	71.4	70.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	242.1	243.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	22.7	22.3
6	Aggregate impact value (Mean of two tests)	Pecentage	22.5	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |